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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,416	01/26/2005	Tadashi Ishida	ashi Ishida 018765-204 5645	
	7590 12/27/200 INGERSOLL & ROO	EXAMINER		
POST OFFICE BOX 1404			SHEWAREGED, BETELHEM	
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			1774	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		12/27/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
	10/522,416	ISHIDA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Betelhem Shewareged	1774				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>03 October 2006 and 01 November 2006</u> .						
2a)⊠ This action is <b>FINAL</b> . 2b)□ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s): <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) ☑ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	alection requirement	•				
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti		, ,				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6)  Other:  U.S. Patent and Trademark Office						
	ion Summary Par	t of Paper No./Mail Date 20061221				

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## **DETAILED ACTION**

1. Applicant's responses along with Declaration under 37 CFR 1.132 filed on 10/03/2006 and 11/01/2006 have been fully considered. Claims 1 and 4-6 are amended and claims 1-6 are pending.

## Claim Rejections - 35 USC § 102

- 2. Claims 1-6 are rejected under 35 U.S.C. 102(a) as being anticipated by Galleguillos et al. (US 6,361,768 B1).
- 3. Galleguillos discloses an ampholytic copolymer having at least one anionic functional group and at least one cationic functional group (col. 4, line 36). The copolymer has a glass transition temperature of above 50 degree C, and is in a form of a fine powder with submicron particle size (abstract). Submicron particle size is a particle size of less than 1 um, which includes the claimed particle size. The copolymer can be used for paper coating (col. 19, line 2).

## Response to Arguments

4. Applicant's argument is based on that the prior art discloses applying an aqueous composition of the copolymer to a paper; the resulting coating would not contain polymeric organic particles. Rather, the prior art discloses that the copolymer would be dissolved, and therefore such coating would not include polymeric organic material in the form of particles, as presently claimed. This argument is not persuasive for the following reason. Even though the prior art teaches that the copolymer dissolves readily

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in water, the prior art does not expressly disclose that the copolymer dissolves completely. The copolymer may partially dissolve and may comprise reduced particle diameter.

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- 5. Applicant has submitted a declaration to show that the claimed particle diameter of the range from 1 to 500 nm provides ink jet recording medium, which is more excellent in color density. However, it is impossible to determine that excellent color density has been obtained by using the claimed particle diameter because the value of excellent or acceptable color density has never been defined either in the specification or in the declaration.
- 6. For the above reasons claims 1-6 stand rejected.

## Conclusion

- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 8. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Betelhem Shewareged whose telephone number is 571-

272-1529. The examiner can normally be reached on Mon.-Fri. 8:00AM-4:30PM.

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

11. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BS

December 21, 2006.

BETELHEM SHEWAREGED

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